

Jöllenbecker Str. 2

33824 Werther (Westfalen)

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**- Product certificate -**

RAVENOL FOS SAE 5W-30

Item no.: 1111303

*Synthetisch PKW, CleanSynto*

## Description

RAVENOL FOS SAE 5W-30 is a synthetic modern high performance and low-friction engine oil with CleanSynto® technology for car gasoline engines, with and without turbocharging and direct injection, such as Turbo-GDI and direct injection.

With its new formulation, RAVENOL FOS SAE 5W-30 provides a safe layer of lubrication even at very high operating temperatures and protects from corrosion and loss of oil through oxidation or coking.

RAVENOL FOS SAE 5W-30 achieves a high viscosity index through its formulation with special base oils. The excellent cold start characteristics provides the optimal lubricating safety in the cold-running phase. Because of the noticeable fuel economy contributes this item the reduction of pollutant emissions and protecting the environment.

RAVENOL FOS SAE 5W-30 minimizes friction, wear and fuel consumption with excellent cold start characteristics. RAVENOL FOS SAE 5W-30

helps to avoid low speed pre-ignition LSPI (Low Speed Pre-ignition). This can help avoid engine damage.

Suitable for extended oil change intervals where recommended by manufacturer.

## Instructions for use

RAVENOL FOS SAE 5W-30 is a high-performance low-friction engine oil for modern engines. It is recommended by OPEL/GENERAL MOTORS corresponding to dexos1 specification for modern car engines under all operating conditions.

RAVENOL FOS SAE 5W-30 is also suitable for the shown specifications of Ford, Chrysler and Fiat.

## Quality classification

is tried and tested for aggregates specifying:

Specification

- API SP (RC)
- ILSAC GF-6A

## Recommendation

- |                    |                      |                      |
|--------------------|----------------------|----------------------|
| • Chrysler MS-6395 | • Ford WSS-M2C929-A  | • GM dexos1™ Gen 3   |
| • Fiat 9.55535-CR1 | • Ford WSS-M2C946-A  | • Honda/Acura HTO-06 |
| • MS-13340         | • Ford WSS-M2C946-B1 |                      |

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*Synthetisch PKW, CleanSynto***Properties**

RAVENOL FOS SAE 5W-30 offers:

- Fuel economy in part and full power operation
- Outstanding wear protection and very stable and excellent viscosity behaviour to ensure engine longevity that under high-speed engine operation
- Excellent cold-start properties even at low temperatures below -25°C
- A safe lubricating film at high operating temperatures
- Low evaporation tendency, thus low oil consumption
- No oil-based deposits in combustion chambers, in the piston ring zone and on valves
- Neutrality towards sealing materials
- Extended oil change intervals protect natural resources
- Catalyst cleaning

**Technical specifications**

Test Property	Unit of measure	Test Value	Test method
Density at 20 °C	kg/m <sup>3</sup>	844,0	EN ISO 12185
Colour		gelb braun	VISUELL
Viscosity at 100 °C	mm <sup>2</sup> /s	10,8	DIN 51562-1
Viscosity at 40 °C	mm <sup>2</sup> /s	59,8	DIN 51562-1
Viscosity Index VI		173	DIN ISO 2909
HTHS Viscosity at 150 °C	mPa*s	3,4	ASTM D5481
CCS Viscosity at -30 °C	mPa*s	3630	ASTM D5293
Low Temp. Pumping viscosity (MRV) at -35 °C	mPa*s	13.500	ASTM D4684
Pourpoint	°C	-45	DIN ISO 3016
Sulphated Ash	%wt.	0,86	DIN 51575
tbn	mg KOH/g	7,8	ASTM D2896
Flashpoint	°C	240	DIN EN ISO 2592
Noack Volatility	% M/M	8,1	ASTM D5800

All indicated data are approximate values and are subject to the commercial fluctuations.